1 🗀	The Soul of the Craft: Inside the Intentional Technician Presented to the Piano Technician's Guild Phoenix, Arizona January 5, 2007
2 🗀	The Soul of the Craft: Inside the Intentional Technician Phoenix, Arizona January 5, 2007
	"Always aim for the high end."
	Willis Snyder
3 🗀	The Soul of the Craft: Inside the Intentional Technician Phoenix, Arizona January S. 2007
	"If you can make a radical positive change in the sound and feel of a piano in a relatively short amount of time, you winbigfor the rest of your career."
	Norman Neblett
4 🗀	The Soul of the Craft: Inside the Intentional Technician Phoenix, Arizona January 5, 2007
	"PIANO WORK IS A WHOLE-BODY, FEELING, PHYSICAL EVENT,
	NOT AN ANALYTICAL, THOUGHT-BASED, 'NECK-UP' EVENT."
	David Andersen
5 🗀	The Soul of the Craft: Inside the Intentional Technician Phoenix, Arizona January 5, 2007
	HI

6 The Soul of the Craft:

Inside the Intentional Technician Phoenix, Arizona January 5, 2007

### **BEFORE WE BEGIN**

- Focus
- Language
- I love questions
- · Take care of yourself
- Please read and re-read the material
- YOU are in the top tier of this craft---why? YOU'RE HERE
- 7 Thank you....
  - Tanya Ragir
  - Jenika Khalsa
  - Steve Bellieu
  - Dale Erwin
  - Phenoyd Ezra
  - Gary Teleen
  - Rick Florence
  - Roger Jolly
  - Melanie Brooks
  - Virgil Smith
  - Ed Sutton
  - · Bill Garlick
  - Ted Sambell
  - Ed Foote
  - · Richard Davenport
  - David Abell

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The Soul of the Craft: Inside the Intentional Technician

# • The Atmosphere

- Where Art meets Craft
- We create beauty; we enable some of the highest

expression of human beings...

- love
- emotion
- creativityoriginality
- intelligence
- excellence
- self-reflection

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• T	he	work	it	takes	on	the	insic	le

• Responsibility

For your actions

For your state of being

• Do you live as a victim?

Blaming others

Blaming yourself

• "Doubt kills the warrior"

10 🗀 The Atmosphere:

The work it takes on the inside

### • Gratitude

- What do you call the most precious thing in the world?
- Behold: the Trillion-Dollar Unit
- Practice gratitude as a craft, a daily discipline
- 11 🗆 The Atmosphere:

The work it takes on the inside

- What's the only thing you can really control?
- The Inner Game
  - Self 1 & Self 2
  - · "watching the seams of the ball"
- The present moment contains everything you want
- 12 🗀 The Atmosphere: The work it takes on the inside

• Reliable Catalysts:

things, actions or situations that repeatedly enable you to feel joy, satisfaction, and love

---It's important that **music** be in your top 5

The Golden Rule

---Is piano work on the list?

13 🗀 The Atmosphere: the work it takes on the inside

14 🗀	simple yet impossible?the greatest business plan in theask Warren Buffettgives strength and humility in equalthe most practical and complete path  The Atmosphere: The work it takes on the inside  • PASSION: essential ingredient for	world measure to success in business
	• the high end of our craft	
	• a successful business	
	• successful relationships	
	• a rich and balanced life	
15 🗀	The Atmosphere: the work it takes on the inside	
	• MASTERY:	
	Find a niche and <b>commit</b>	
16 🗀	<ul> <li>Do the work as a continual student</li> <li>Get help</li> <li>Challenge yourself</li> <li>Risk failure</li> <li>The Atmosphere: the work it takes on the inside</li> <li>COMMUNITY</li> <li>COLLEGIALITY</li> <li>COLLABORATION</li> </ul>	
17 🗖	The best way (IMO) to grow your business & offer complete piano service seeing your skills and your nature realistically I was a lone wolf, working small the power of an apprentice the power of working closely with your peers  The Soul of the Craft: Inside the Intentional Technician Presented to the Presented to the Presented to the Presented to the Phoenix, Arizona January 5, 2007  The Atmosphere Made Manifest:	ce
	<b>Business Practices</b>	
18 🗀	The Atmosphere Made Manifest: Business Practices	
	• Perception	

No matter how you rationalize it, the world

works on first impressions ---the atmosphere you bring in with you ---"Blink" • Excellence NOT perfection; perfection KILLS • Relationship The fountain, the wellspring, of the MOST ESSENTIAL INGREDIENT ---it's a craft 19 🗀 The Atmosphere Made Manifest: Business Practices • TRUST---the rock on which your success is built... (my mentors all said the same thing) • Telling the truth **feels** the best, simplest, cleanest • After a while, clients look forward to paying you. The Atmosphere Made Manifest: **Business Practices** "My reputation is on the line when I recommend [something.] I can't risk that...the public's trust in me is far more valuable than anything I can make on a given sale...the customer's trust is the biggest asset we can have in this business. There is no reason not to get paid for being trusted." Ed Foote The Atmosphere Made Manifest: BE LIKE A DOCTOR The Atmosphere Made Manifest: Complete Piano Service • definition: The ability to understand, diagnose, and implement the work necessary to put a piano in its · monetizing everything related to pianos

- maximum playing condition, and keep it there, through judicious maintenance, throughout its years of use.
- · forces/enables collaboration

20 🗀

21 🗀

22 🗀

- · forces/enables being honest about your skillset
- · forces/enables expansion, challenge, risk-taking 23 🗀 The Atmosphere Made Manifest: Business Practices

MARKETING: dirty word

or

key to success?

- · gut reaction • examine your prejudice in "the cold light of day" · asking for and accepting help
- · selling YOU as you are
- The Atmosphere Made Manifest:

24 🗀

## **MARKETING**

- best is relationship and experience-based
- · then word-of-mouth
- then reputation
- 25 🗀 The Atmosphere Made Manifest: MARKETING
  - · A good, creative, honest, original web site that reflects your personality is the best local ad you could ever hope to have---like having a TV show in your city/area---guaranteed to pay for itself many times over---

# IF

# you know what to do....

26 🗀 The Atmosphere Made Manifest: Business Practices

#### MARKETING

A good, creative, honest, original web site that reflects your personality is the **best local ad you could ever hope to have---**like having a TV show in your city/area---guaranteed to pay for itself many times over--vou know what to do.

# Search Engine Optimization

Google it!

27 🗀 The Soul of the Craft: Inside the Intentional Technician Presented to the Piano Technician's Guild Phoenix, Arizona January 5, 2007

The Atmosphere Made Manifest:

# Working On Pianos

28 🗀 The Atmosphere Made Manifest: Working on Pianos

DIAGNOSTICS

- Be like a doctor
- · Use your experience
- · Trust your intuition
- Fully question the player/client: they're with you through the diagnosis so you can
- · "Show and Tell"
  - you'll probably be the first
  - you become the doctor
  - you are the expert, the trusted one

29 🗀	The Atmosphere Made Manifest:
_	Working on Pianos

### The tools I need for diagnosis

- · Blow distance measurer
- Ruler
- · Dip block
- Erwin action ratio gauge
- · Screwdriver
- · Gram weights
- Headlamp
- Magnifier
- String
- Bearing sticks
- · String level bubble gauge
- The Atmosphere Made Manifest: Working on Pianos

## DIAGNOSTICS

- What I want to find out:
  - · blow distance
  - key travel
  - action ratio (ballpark)
  - BW (balance weight---DW + UW divided by 2)

then

- A slo-mo test blow reveals
  - Let-off
  - Drop
  - · Spring strength
  - · Jack position
  - · Friction issues
    - Front rail bushings
    - Balance rail hole & bushings
- The Atmosphere Made Manifest:
  Doing the Work

### DIAGNOSTICS

- What I want to find out---and how:
  - · Shank flange friction
  - Knuckle shape & condition
  - Pluck test
  - · Thump test
  - Look at the bridge caps
  - Get a sense of crown & bearing
  - Pedals

- Dampers · Timing • Upstop • Guide rail · Flutter point 32 🗀 The Atmosphere Made Manifest: DIAGNOSTICS Record the information fully • Be like a doctor: record it on voicemail · Usually much more detail-rich than filling out a form · Find a way to archive it • Propose a 2-day service, perhaps with • "Triage restoration" 33 🗀 The Atmosphere Made Manifest Working on Pianos DIAGNOSTICS • 2-Day Service typically includes · Rebuild pedals, pedal mod as necessary • Lubricate and time damper system · Refelt upstop rail & damper tray if necessary • Lift, level, & seat strings, tap bridge pins · Complete cleaning • Raise key height, level keys if necessary · Miscellaneous mechanical repairs · Repin shank flanges if necessary • Complete action regulation · File hammers · Mate hammers to strings Voicing • Tuning 34 🗀 The Atmosphere Made Manifest: Working on Pianos DIAGNOSTICS · Triage Restoration may include · Rebuilding the keyframe · Replacing and/or moving the knuckles · Removing mass from hammers • Redistributing key leads · Repositioning the capstans
  - \*triage restoration is a temporary fix (except for rebuilding the keyframe;) I don't like to do it unless the client agrees to an eventual complete restoration.

The Atmosphere Made Manifest: Working on Pianos

· Replacing bass strings

• Arledge strings, German loops

### REGULATION

• Shimming the whippen rail (increasing action spread)

• Manufacturer's specs are the beginning....

#### NOT the end

- · Every action is custom-made and slightly different
- Every action has a "sweet spot"---
  - · A point of maximum function and good feeling via the interaction of all the regulation points
- · Every regulation point has its own "sweet spot"
- The most sensitive part of your body is...?
  - Develop a greater & greater sensitivity
- There's a move for everything
- GET PRECISE
- The Atmosphere Made Manifest:
  Working on Pianos
  REGULATION
  - Blow distance---46mm minimum
  - Key travel---10.2 mm is ideal & CRUCIAL;

NEVER less than 10mm

- · Spring strength
- · Jack position
- · Jack height
- · Backchecks
- Letoff
- Drop
- Aftertouch
- · Bubble check
- The Atmosphere Made Manifest:
  Working on Pianos
  REGULATION
  - Everything affects everything
  - Balance
  - Keep doing it with calm attention and focus---you'll get better in a hurry
  - Let your whole body FEEL what the sweet spot is
  - Develop your own custom way to get repeatably precise and idealized
- The Atmosphere Made Manifest: Working on Pianos

### **TUNING**

- Tuning as a path to success---a big door-opener
  - --- I could make a radical positive change right away
  - ---I liked people and people liked me
- How I learned and progressed
  - ---my own best friend
  - ---my own worst enemy
  - ---MENTORS
- What "The Inner Game of Tennis" taught me
  - ---self 1 and self 2
  - ---awareness vs. thoughts
  - ---RELAX
  - ---trust your body

39 🗀 The Atmosphere Made Manifest: Working on Pianos TUNING · Tuning priorities: ---idealized rock-solid temperament ---follow the fourths ---double and triple octaves ---unisons · Secrets of magnificent tuning: ---the fourths and "agua" ---visualizing the perfect unison --- the courage to stretch ---beatless triple octaves • STAY RELAXED AND LOOSE ---the destructive power of tension & worry ---enter the world of the sound The Atmosphere Made Manifest: Working on Pianos 40 🗀 TUNING • Why tuning below the temperament is the key to musicality ---end of the long bridge: toughest 4 notes in the piano ---why the bass will eat you up, and why you'll change your career if you learn how to stretch it right • Test blows and setting the pin: Zen it out without damage or pain • Hydration---always have water with you as you tune. Stretching---love your back & arms ...be grateful; you're getting paid to meditate on deep & beautiful sounds 41 The Atmosphere Made Manifest: Working on Pianos **VOICING** • The final frontier---lots of fear around it • One problem: lack of a repeatable protocol • I stumbled upon what I'm going to show you 10 years ago • On a decent set of hammers, it works beautifully every time to get the "Golden Tone" we all want & love • Pre-voicing: absolutely essential; this won't work without it

In the shopIn the field

FINAL THOUGHTS

The Soul of the Craft: Inside the Intentional Technician

Phoenix, Arizona January 5, 2007

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- Carpe Diem
- Raise your rates, because
- YOU BRING IMMENSE VALUE TO YOUR CLIENTS
- Have a lot of fun
- Get "off the grid" frequently
- Make work sacred
- RELAX
- Be exactly who you are



The Soul of the Craft: Inside the Intentional Technician Phoenix, Arizona January 5, 2007

And, finally.....

EMBRACE the PARADOX:

"Triple-A & the 800-pound gorilla"

THANK YOU from the bottom of my heart for this opportunity---and the precious gift of your attention...

SEE YOU IN ANAHEIM